

**BOBBY JINDAL**  
GOVERNOR



**PEGGY M. HATCH**  
SECRETARY

**State of Louisiana**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**ENVIRONMENTAL SERVICES**

Certified Mail No.

Agency Interest No. 3269  
Activity No.: PER20100001

Mr. Mike O'Connor  
XTO Energy, Inc.  
810 Houston Street  
Fort Worth, Texas 76102

**RE:** Operating permit renewal/modification, Cotton Valley Gas Plant, XTO Energy Inc., Cotton Valley, Webster Parish, Louisiana

Dear Mr. O'Connor:

This is to inform you that the permit renewal/modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_\_ of \_\_\_\_\_, 2015, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest Number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

Permit No.: 3080-00019-V5

Sincerely,

Cheryl Sonnier Nolan  
Assistant Secretary  
CSN/DCN  
cc: EPA Region 6

**PUBLIC NOTICE**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)**  
**XTO ENERGY, INC. - COTTON VALLEY GAS PLANT**  
**PROPOSED PART 70 AIR OPERATING PERMIT RENEWAL & MODIFICATION**

The LDEQ, Office of Environmental Services, is accepting written comments on the proposed Part 70 air operating permit renewal/modification for XTO Energy, Inc., 810 Houston Street, Fort Worth, Texas 76102 for the Cotton Valley Gas Plant. **The facility is located at 1256 Marathon Road, Cotton Valley, Webster Parish.**

XTO Energy, Inc. requested a permit renewal/modification to 1) replace three compressor engines (EQT0043, EQT0044, EQT0045) and four storage tanks (EQT0046, EQT0047, EQT0048, EQT0049); 2) permit two existing compressor engines (EQT0041, EQT0042) (currently shutdown); and 3) increase run time of four generator engines (EQT0015, EQT0016, EQT0017, EQT0018). Emissions from the plant were recalculated based on updated emissions factors and current operating conditions.

**This permit was processed as an expedited permit in accordance with LAC 33:I.Chapter 18.**

Permitted emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM <sub>10</sub>	7.21	10.17	+ 2.96
SO <sub>2</sub>	0.84	20.27	+ 19.43
NO <sub>x</sub>	350.61	519.27	+ 168.66
CO	272.42	283.16	+ 10.74
VOC, total	135.26	102.83	- 32.43

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Sournaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Thursday, June 3, 2010.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The application, proposed permit and the statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5<sup>th</sup> Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at [www.deq.louisiana.gov](http://www.deq.louisiana.gov).

Additional copies may be reviewed at Webster Parish Library - Minden Main Branch, 521 East & West Street Minden, LA 71055.

Inquiries or requests for additional information regarding this permit action should be directed to Dan Nguyen, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3118.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at [deqmailistrequest@la.gov](mailto:deqmailistrequest@la.gov) or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

**Permit public notices including electronic access to the proposed permit and statement of basis** can be viewed at the LDEQ permits public notice webpage at [www.deq.louisiana.gov/apps/pubNotice/default.asp](http://www.deq.louisiana.gov/apps/pubNotice/default.asp) and general information related to the public participation in permitting activities can be viewed at [www.deq.louisiana.gov/portal/tabid/2198/Default.aspx](http://www.deq.louisiana.gov/portal/tabid/2198/Default.aspx).

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at [http://www.doa.louisiana.gov/oes/listservpage/ldeq\\_pn\\_listserv.htm](http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm).

**All correspondence should specify AI Number 3269, Permit Number 3080-00019-V5, and Activity Number PER20100001.**

**Scheduled publication date: Thursday, April 29, 2010**

**AIR PERMIT BRIEFING SHEET  
AIR PERMIT DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**COTTON VALLEY GAS PLANT  
AGENCY INTEREST NO. 3269  
XTO ENERGY INC.  
COTTON VALLEY, WEBSTER PARISH, LOUISIANA**

**I. Background**

XTO Energy Inc. owns and operates the Cotton Valley Gas Plant approximately 2 miles south of Cotton Valley, Webster Parish, Louisiana, under Permit 3080-00019-V4, dated March 2, 2009.

**II. Origin**

An application, dated March 5, 2010 as well as additional information date March 25 and April 6, 2010 were submitted, requesting a Title V permit renewal/modification.

**III. Description**

Natural gas from the Cotton Valley Field enters the plant through inlet separators where gas, condensate and water are separated. Water is sent to a storage tank and then disposed in one of two disposal wells. Condensate is transferred to the stabilizer where the light ends are boiled off and sent back to the low-pressure inlet gas stream. The remaining condensate is routed through a fin fan air cooler to a methane blanketed storage tank and then transported off-site via pipeline.

Separated gas is compressed to 900 psig prior to entering the amine sweetening unit for CO<sub>2</sub> and H<sub>2</sub>S removal. Moisture in the gas is removed in either one of two molecular sieve dehydrators. The dry gas is fractionated in the cryogenic plant, which uses two stages of expansion. Methane gas is recompressed and routed to sales pipeline. Gas from the molecular sieve units regeneration is dehydrated in the triethylene glycol unit. Vents from the glycol regenerator still column and the amine regenerator still column are controlled by condensers. Non-condensables are destroyed in the thermal oxidizer.

XTO Energy requests a permit renewal/modification to 1) replace three compressor engines (EQT0043, EQT0044, EQT0045) and four storage tanks (EQT0046, EQT0047, EQT0048, EQT0049); 2) permit two existing compressor engines (EQT0041, EQT0042) (currently shutdown); and 3) increase run time of four generator engines (EQT0015, EQT0016, EQT0017, EQT0018). Emissions from the plant were recalculated based on updated emissions factors and current operating conditions. Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM <sub>10</sub>	7.21	10.17	+ 2.96
SO <sub>2</sub>	0.84	20.27	+ 19.43
NO <sub>x</sub>	350.61	519.27	+ 168.66
CO	272.42	283.16	+ 10.74
VOC, total	135.26	102.83	- 32.43

**AIR PERMIT BRIEFING SHEET  
AIR PERMIT DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**COTTON VALLEY GAS PLANT  
AGENCY INTEREST NO. 3269  
XTO ENERGY INC.  
COTTON VALLEY, WEBSTER PARISH, LOUISIANA**

LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs)			
Pollutant	Before	After	Change
1,3-Butadiene	-	0.04	+ 0.04
2,2,4-Trimethylpentane	-	0.33	+ 0.33
Acetaldehyde	-	3.19	+ 3.19
Acrolein	-	0.73	+ 0.73
Benzene	4.84	3.16	- 1.68
Ethylbenzene	-	0.28	+ 0.28
Formaldehyde	7.26	8.21	+ 0.95
Methanol	0.13	1.04	+ 0.91
n-Hexane	1.90	1.93	+ 0.03
Styrene	-	0.22	+ 0.22
Toluene	2.50	0.62	- 1.88
Xylenes	0.03	0.34	+ 0.31
Chromium VI	0.01	-	- 0.01
<b>Total</b>	<b>16.67</b>	<b>20.09</b>	<b>+ 3.42</b>

Permitted NO<sub>x</sub> emissions increases will be more than the PSD significance level. A netting analysis is required. Various projects implemented during the contemporaneous period of June 2005 through June 2010 provide enough credits to net this permit modification out of the PSD review.

#### IV. Type of Review

This application was reviewed for compliance with the Louisiana Part 70 operating permit program, Louisiana Air Quality Regulations, NSPS, and NESHAP.

This facility was a major source of toxic air pollutants (TAP) when the LAC 33:III.Chapter 51 was promulgated. By installing the thermal oxidizer, the facility became a minor source of TAP subject to LAC 33:III.5105.A and 5113.

The Cotton Valley Gas Plant was a major source of hazardous air pollutants (HAPs) when the 40 CFR 63 Subpart ZZZZ was promulgated; therefore, Engines 40.03 and 40.04 are subject to this regulation. By installing catalytic converters on several engines, HAPs emissions from the plant were reduced to less than the HAP major source threshold. However, based on the "once in always in" policy (John S. Seitz, May 16, 1995), Engines 40.03 and 40.04 remain subject to the 40 CFR 63 Subpart ZZZZ.

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XTO ENERGY INC.  
COTTON VALLEY, WEBSTER PARISH, LOUISIANA**

To maintain NO<sub>x</sub> emissions increases from the 1998 project below the PSD significance level of 40 tons/year, federally enforceable conditions are used to limit operating times of four generators to 28,000 hours/year.

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, and in the ZZZ, ZZZ, on XXX, and was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List. The permit application, the proposed permit, and the Statement of Basis were submitted to the Webster Parish Library - ZZZ Branch. The proposed permit and the Statement of Basis were submitted to US EPA Region 6. All comments will be considered prior to a permit decision.

**VII. Effects on Ambient Air**

Emissions were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. The proposed project did not require the applicant to model emissions.

**AIR PERMIT BRIEFING SHEET  
AIR PERMIT DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**COTTON VALLEY GAS PLANT  
AGENCY INTEREST NO. 3269  
XTO ENERGY INC.  
COTTON VALLEY, WEBSTER PARISH, LOUISIANA**

**VIII. General Condition XVII Activities**

ID No.:	Description	VOC Emissions (TPY)
	Miscellaneous Sampling Procedures	0.25
	Compressor Blowdowns Associated with Regular Maintenance	2.81
	Line Preparation	0.25
	Vessel Preparation	0.20
	Filter Replacements	0.05
	Instrumentation Mechanical Work	0.10
	Tank Cleaning for Inspection/Service	0.38

**IX. Insignificant Activities (LAC 33:III.501.B.5)**

ID No.:	Description	Capacity (gallons)	Citation
55-10-CST	Chemical Storage Tanks (20)	300	A.3
56-10-GST	Glycol Storage Tank	1000	A.3
57-10-LOT	Lube Oil Tanks (3)	8820	A.3
58-10-AST	Amine Storage Tanks (2)	4200	A.3
59-10-DST	Diesel Storage Tanks (2)	500	A.3
60-10-DST	Diesel Storage Tank	2200	A.3
61-10-DST	Diesel Storage Tank	265	A.3

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

COTTON VALLEY GAS PLANT  
AGENCY INTEREST NO. 3269  
XTO ENERGY INC.

COTTON VALLEY, WEBSTER PARISH, LOUISIANA

## X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33.III. Chapter																
		509	2103	2104	2107	2109	2111	2113	2116	2121	54	9	11	13	15	51*	52	56
EQT0008	2.01 - Boiler #1															1	1	3
EQT0009	2.02 - Boiler #2															1	1	3
EQT0010	2.03 - Boiler #3															1	1	3
EQT0011	26.00 - Regeneration Heater															1	1	3
EQT0012	27.01 - Storage Tank, Stabilized Condensate	3														1	1	3
EQT0013	29.00 - Control Flare															1	1	3
EQT0014	3.00 - Glycol Regenerator - Burner Stack															1	1	3
EQT0015	30.01 - Generator #1, Caterpillar 3516TALE															1	1	3
EQT0016	30.02 - Generator #2, Caterpillar 3516TALE															1	1	3
EQT0017	30.03 - Generator #3, Caterpillar 3516TALE															1	1	3
EQT0018	30.04 - Generator #4, Caterpillar 3516TALE															1	1	3
EQT0019	31.01 - Stabilizer Reboiler - Burner Stack															1	1	3
EQT0020	32.01 - Fire Water Pump Engine, Caterpillar 3208															1	1	3
EQT0021	32.02 - Fire Water Pump Engine, Caterpillar 3208															1	1	3
EQT0022	33.01 - Backup Air Compressor, John Deere 4045T															1	1	3
EQT0024	35.01 - Methanol Storage Tank	1														1	1	3
EQT0027	40.01 - Compressor #10, Clark RA-6															1	1	3
EQT0028	40.02 - Compressor #23, Caterpillar 3516 TALE															1	1	3
EQT0029	40.03 - Compressor #1, Caterpillar 3516 TALE															1	1	3
EQT0030	40.04 - Compressor #6, Caterpillar 3516 TALE															1	1	3
EQT0031	41.01 - Compressor #2, Caterpillar 3516 TALE															1	1	3
EQT0032	39.02 - Compressor #11, Clark RA-6															1	1	3

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

COTTON VALLEY GAS PLANT  
AGENCY INTEREST NO. 3269  
XTO ENERGY INC.

COTTON VALLEY, WEBSTER PARISH, LOUISIANA

## X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:II												LAC 33:III, Chapter 5					
		509	2103	2104	2107	2109	2111	2113	2116	2121	54	9	11	13	15	51*	52	56	59
EQT0033	39.03 - Compressor #12, Clark RA-6																		
EQT0034	3.01 - Glycol Regenerator - Still Column											1							
EQT0035	52-10-AR-SCC - Amine Regenerator - Still Column / Condenser												1						
EQT0036	53-10-GST-V - Gasoline Storage Tank										1								
EQT0039	36.01R - Thermal Oxidizer																		
EQT0040	37.01 - Methanol Storage Tank									1									
EQT0041	10.05 - Compressor #5, Clark RA-6																		
EQT0042	10.08 - Compressor #8 , Clark RA-6																		
EQT0043	47-10-ICE-ES - Compressor #17, Caterpillar 3516TALE																		
EQT0044	48-10-ICE-ES - Compressor #18, Caterpillar 3516TALE																		
EQT0045	49-10-ICE-ES - Compressor #19, Caterpillar 3516TALE																		
EQT0046	50a-10-WST-CV - Water Storage Tank									3									
EQT0047	50b-10-WST-CV - Water Storage Tank									3									
EQT0048	50c-10-WST-CV - Water Storage Tank									3									
EQT0049	51-10-ST-V - Storage Tank, Field Receiving									3									
FUG0001	4.00 - Fugitives - Facility Wide																		
FUG0002	4.00a - Fugitives - New Fractionation Plant											1							
FUG0003	4.00b - Fugitives - Excluding the New Fractionation Plant											1							
UNF0001	Cotton Valley Gas Plant											1							

\* The regulations indicated above are State Only regulations.

\* All LAC 33:II Chapter 5 citations are federally enforceable including LAC 33:II.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

COTTON VALLEY GAS PLANT  
AGENCY INTEREST NO. 3269

XTO ENERGY INC.

COTTON VALLEY, WEBSTER PARISH, LOUISIANA

## X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63						40 CFR	
		A	D <sub>b</sub>	D <sub>c</sub>	K <sub>b</sub>	G <sub>G</sub>	K <sub>KKK</sub>	L <sub>LL</sub>	J <sub>UUU</sub>	A	J	F <sub>F</sub>	A	H <sub>H</sub>	Z <sub>ZZZZ</sub>	64	68	72			
EQT0008	Z.01 - Boiler #1																				
EQT0009	Z.02 - Boiler #2																				
EQT0010	Z.03 - Boiler #3																				
EQT0011	26.00 - Regeneration Heater																				
EQT0012	27.01 - Storage Tank, Stabilized Condensate																				
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EQT0015	30.01 - Generator #1, Caterpillar 3516TALE																				3
EQT0016	30.02 - Generator #2, Caterpillar 3516TALE																				3
EQT0017	30.03 - Generator #3, Caterpillar 3516TALE																				3
EQT0018	30.04 - Generator #4, Caterpillar 3516TALE																				3
EQT0019	31.01 - Stabilizer Reboiler - Burner Stack																				
EQT0020	32.01 - Fire Water Pump Engine, Caterpillar 3208																				3
EQT0021	32.02 - Fire Water Pump Engine, Caterpillar 3208																				3
EQT0022	33.01 - Backup Air Compressor, John Deere 4045T																				3
EQT0024	35.01 - Methanol Storage Tank																				
EQT0027	40.01 - Compressor #10, Clark RA-6																				3
EQT0028	40.02 - Compressor #23, Caterpillar 3516 TALE																				3
EQT0029	40.03 - Compressor #1, Caterpillar 3516 TALE																				1
EQT0030	40.04 - Compressor #6, Caterpillar 3516 TALE																				1
EQT0031	41.01 - Compressor #2, Caterpillar 3516 TALE																				3
EQT0032	39.02 - Compressor #11, Clark RA-6																				3
EQT0033	39.03 - Compressor #12, Clark RA-6																				3
EQT0034	3.01 - Glycol Regenerator - Still Column / Condenser																				1
EQT0035	52-10-AR-SCC - Amine Regenerator - Still Column / Condenser																				1

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**COTTON VALLEY GAS PLANT**  
**AGENCY INTEREST NO. 3269**

**XTO ENERGY INC.**  
**COTTON VALLEY, WEBSTER PARISH, LOUISIANA**

**X. Applicable Louisiana and Federal Air Quality Requirements**

<b>ID No.:</b>	<b>Description</b>	<b>40 CFR 60 NSPS</b>						<b>40 CFR 61</b>						<b>40 CFR 63</b>						<b>40 CFR</b>					
		<b>A</b>	<b>D<sub>b</sub></b>	<b>D<sub>c</sub></b>	<b>K<sub>b</sub></b>	<b>GG</b>	<b>KKK</b>	<b>LL</b>	<b>JJJ</b>	<b>A</b>	<b>J</b>	<b>F<sub>f</sub></b>	<b>A</b>	<b>HH</b>	<b>ZZZZ</b>	<b>64</b>	<b>68</b>	<b>72</b>							
EQT0036	53-10-GST-V - Gasoline Storage Tank																								
EQT0039	36-01R - Thermal Oxidizer																								
EQT0040	37-01 - Methanol Storage Tank																								
EQT0041	10.05 - Compressor #5, Clark RA-6	1																							
EQT0042	10.08 - Compressor #8, Clark RA-6																								
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FUG0003	4.00b - Fugitives - Excluding the New Fractionation Plant																								
UNF0001	Cotton Valley Gas Plant																								

**KEY TO MATRIX**

- 1 - The regulations have applicable requirements which apply to this particular emission source.
  - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.
  - Blank - The regulations clearly do not apply to this type of emission source.

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**COTTON VALLEY GAS PLANT  
AGENCY INTEREST NO. 3269  
XTO ENERGY INC.  
COTTON VALLEY, WEBSTER PARISH, LOUISIANA**

**XI. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Status	Citation	Explanation
EQT0008 - EQT0011	LAC 33:III.Chapter 15	Does not apply	LAC 33:III.1502.A.3	SO <sub>2</sub> emissions < 5 tons/year
EQT0013, EQT0014				
EQT0019,				
EQT0043 - EQT0045				
EQT0012	LAC 33:III.2103 Storage of VOC	Does not apply	LAC 33:III.2103.A	Vapor Pressure < 1.5 psia
	NSPS Subpart Kb for storage tanks	Does not apply	40 CFR 60.110(b)	Tank volume < 20,000 gallons
EQT0015 - EQT0018	LAC 33:III.Chapter 15	Does not apply	LAC 33:III.1502.A.3	SO <sub>2</sub> emissions < 5 tons/year
EQT0020 - EQT0022				
EQT0027, EQT0028	40 CFR 60 Subpart JJJ for engines	Does not apply	40 CFR 60.4230	No construction/modification after applicability date
EQT0031 - EQT0033				
EQT0041, EQT0042	40 CFR 63 Subpart ZZZZ	Does not apply	40 CFR 63.6590	Existing RICE at an area source
	NSPS Subpart Kb for storage tanks	Does not apply	40 CFR 60.110(b)	Tank Volume < 20,000 gallons
EQT0024, EQT0036	LAC 33:III.2103 Storage of VOC	Does not apply	LAC 33:III.2103.A	Vapor Pressure < 1.5 psia
EQT0045, EQT0047,				
EQT0048, EQT0049	NSPS Subpart Kb for storage tanks	Does not apply	40 CFR 60.110(b)	Vapor Pressure < 0.51 psia
EQT0029, EQT0030	40 CFR 60 Subpart JJJ for engines	Does not apply	40 CFR 60.4230	No construction/modification after applicability date
EQT0039	LAC 33:III.1503.C. Emission Standards for Sulfur Dioxide	Exempt	LAC 33:III.1503.C	SO <sub>2</sub> emissions < 250 tons/year
	LAC 33:III.1511 CEM for SO <sub>2</sub> ,	Exempt	LAC 33:III.1511.A	SO <sub>2</sub> emissions < 100 tons/year

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit

**INVENTORIES**

AI ID: 3269 - Cotton Valley Gas Plant  
 Activity Number: PER20100001  
 Permit Number: 3080-00019-V5  
 Air - Title V Regular Permit Renewal

**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Cotton Valley Gas Plant</b>						
EQT 00008	2.01 - Boiler #1		32.7 MM BTU/hr	32.7 MM BTU/hr		8760 hr/yr
EQT 00009	2.02 - Boiler #2		32.7 MM BTU/hr	32.7 MM BTU/hr		8760 hr/yr
EQT 0010	2.03 - Boiler #3		32.7 MM BTU/hr	32.7 MM BTU/hr		8760 hr/yr
EQT 0011	26.00 - Regeneration Heater		5.63 MM BTU/hr	401500 bbl/yr		8760 hr/yr
EQT 0012	27.01 - Storage Tank, Stabilized Condensate	10000 bbl	45.6 MM scf/yr	45.6 MM scf/yr		8760 hr/yr
EQT 0013	29.00 - Control Flare		1 MM BTU/hr	1 MM BTU/hr		8760 hr/yr
EQT 0014	3.00 - Glycol Regenerator - Burner Stack		1085 horsepower	1085 horsepower		8760 hr/yr
EQT 0015	30.01 - Generator #1, Caterpillar 3516 TALE		1085 horsepower	1085 horsepower		8760 hr/yr
EQT 0016	30.02 - Generator #2, Caterpillar 3516 TALE		1085 horsepower	1085 horsepower		8760 hr/yr
EQT 0017	30.03 - Generator #3, Caterpillar 3516 TALE		1085 horsepower	1085 horsepower		8760 hr/yr
EQT 0018	30.04 - Generator #3 Caterpillar 3516 TALE		1085 horsepower	1085 horsepower		8760 hr/yr
EQT 0019	31.01 - Stabilizer Reboiler - Burner Stack		4.41 MM BTU/hr	4.41 MM BTU/hr		8760 hr/yr
EQT 0020	32.01 - Fire Water Pump Engine, Caterpillar 3208		225 horsepower	225 horsepower		225 hr/yr
EQT 0021	32.02 - Fire Water Pump Engine, Caterpillar 3208		225 horsepower	225 horsepower		225 hr/yr
EQT 0022	33.01 - Backup Air Compressor, John Deere 4045T		115 horsepower	115 horsepower		200 hr/yr
EQT 0024	35.01 - Methanol Storage Tank	210 bbl		Methanol		8760 hr/yr
EQT 0027	40.01 - Compressor #10, Clark RA-6		600 horsepower	600 horsepower		8760 hr/yr
EQT 0028	40.02 - Compressor #23, Caterpillar 3516 TALE		1265 horsepower	1265 horsepower		8760 hr/yr
EQT 0029	40.03 - Compressor #1, Caterpillar 3516 TALE		1265 horsepower	1265 horsepower		8760 hr/yr
EQT 0030	40.04 - Compressor #6, Caterpillar 3516 TALE		1265 horsepower	1265 horsepower		8760 hr/yr
EQT 0031	41.01 - Compressor #2, Caterpillar 3516 TALE		1265 horsepower	1265 horsepower		8760 hr/yr
EQT 0032	39.02 - Compressor #11, Clark RA-6		600 horsepower	600 horsepower		8760 hr/yr
EQT 0033	39.03 - Compressor #12, Clark RA-6		600 horsepower	600 horsepower		8760 hr/yr
EQT 0034	3.01 - Glycol Regenerator - Still Column		5000 Mscf/day	5000 Mscf/day		8760 hr/yr
EQT 0035	52.10-AR-SCC - Amine Regenerator - Still Column Condenser		90000 Mscf/day	90000 Mscf/day		8760 hr/yr
EQT 0036	53-10-GST-V - Gasoline Storage Tank	17624 gallons	60000 gallons/yr	60000 gallons/yr		8760 hr/yr
EQT 0039	36.01R - Thermal Oxidizer		3 MM BTU/hr	3 MM BTU/hr		8760 hr/yr
EQT 0040	37.01 - Methanol Storage Tank	1000 gallons		Methanol		8760 hr/yr
EQT 0041	10.05 - Compressor #5, Clark RA-6		600 horsepower	600 horsepower		8760 hr/yr
EQT 0042	10.08 - Compressor #8, Clark RA-6		600 horsepower	600 horsepower		2500 hr/yr
EQT 0043	47-10-ICE-ES - Compressor #17, Caterpillar 3516 TALE		1340 horsepower	1340 horsepower		8760 hr/yr
EQT 0044	48-10-ICE-ES - Compressor #18, Caterpillar 3516 TALE		1340 horsepower	1340 horsepower		8760 hr/yr
EQT 0045	49-10-ICE-ES - Compressor #19, Caterpillar 3516 TALE		1340 horsepower	1340 horsepower		8760 hr/yr
EQT 0046	50a-10-WST-CV - Water Storage Tank	1000 bbl	109500 bbl/yr	109500 bbl/yr		8760 hr/yr
EQT 0047	50b-10-WST-CV - Water Storage Tank	1000 bbl	109500 bbl/yr	109500 bbl/yr		8760 hr/yr
EQT 0048	50c-10-WST-CV - Water Storage Tank	1000 bbl	109500 bbl/yr	109500 bbl/yr		8760 hr/yr
EQT 0049	51-10-ST-V - Storage Tank, Field Receiving	400 bbl	3650 bbl/yr	3650 bbl/yr		8760 hr/yr
FUG 0001	4.00 - Fugitives Facility Wide					8760 hr/yr

**INVENTORIES**

AI ID: 3269 - Cotton Valley Gas Plant  
 Activity Number: PER20100001  
 Permit Number: 3080-00019-Y5  
 Air - Title V Regular Permit Renewal

**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Cotton Valley Gas Plant</b>						
FUG 0002	4.00a - Fugitives - New Fractionation Plant					(None Specified)
FUG 0003	4.00b - Fugitives - Excluding the New Fractionation Plant					(None Specified)
<b>Stack Information:</b>						
ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)
<b>Cotton Valley Gas Plant</b>						
EQT 0008	2.01 - Boiler #1	850	14400	.6		12
EQT 0009	2.02 - Boiler #2	850	14400	.6		12
EQT 0010	2.03 - Boiler #3	850	14400	.6		12
EQT 0011	26.00 - Regeneration Heater	18	2477	1.7		30
EQT 0012	27.01 - Storage Tank, Stabilized Condensate	1.3	5.4	.3		30
EQT 0013	29.00 - Control Flare	150	4600	.8		50
EQT 0014	3.00 - Glycol Regenerator - Burner Stack	40	440	.5		10
EQT 0015	30.01 - Generator #1, Caterpillar 3516 TALE	100	4860	1		20
EQT 0016	30.02 - Generator #2, Caterpillar 3516 TALE	100	4860	1		20
EQT 0017	30.03 - Generator #3, Caterpillar 3516 TALE	100	4860	1		20
EQT 0018	30.04 - Generator #3, Caterpillar 3516 TALE	100	4860	1		20
EQT 0019	31.01 - Stabilizer Reboiler - Burner Stack	165	1940	.5		20
EQT 0020	32.01 - Fire Water Pump Engine, Caterpillar 3208	115	1350	.5		10
EQT 0021	32.02 - Fire Water Pump Engine, Caterpillar 3208	115	1350	.5		10
EQT 0022	33.01 - Backup Air Compressor, John Deere 4045T	60	690	.5		10
EQT 0024	35.01 - Methanol Storage Tank	.01	.01	.2		17
EQT 0027	40.01 - Compressor #10, Clark RA-6	280	6000	.7		30
EQT 0028	40.02 - Compressor #23, Caterpillar 3516 TALE	120	5700	1		20
EQT 0029	40.03 - Compressor #1, Caterpillar 3516 TALE	120	5700	1		20
EQT 0030	40.04 - Compressor #6, Caterpillar 3516 TALE	120	5700	1		20
EQT 0031	41.01 - Compressor #2, Caterpillar 3516 TALE	120	5700	1		20
EQT 0032	39.02 - Compressor #11, Clark RA-6	260	6000	.7		30
EQT 0033	39.03 - Compressor #12, Clark RA-6	260	6000	.7		30
EQT 0036	53.10-GST-V - Gasoline Storage Tank	1	.5	.01	13	70
EQT 0039	36.01R - Thermal Oxidizer	154	65518	3		30
EQT 0040	37.01 - Methanol Storage Tank	.01	.01	.2		17
						70

**INVENTORIES**

AI ID: 3269 - Cotton Valley Gas Plant  
 Activity Number: PER20100001  
 Permit Number: 3080-00019-V5  
 Air - Title V Regular Permit Renewal

**Stack Information:**

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
<b>Cotton Valley Gas Plant</b>							
EQT 0041	1005 - Compressor #5, Clark RA-6	.260	6000	.7		30	500
EQT 0042	1008 - Compressor #8, Clark RA-6	.260	6000	.7		30	500
EQT 0043	47-10-ICE-ES - Compressor #17, Caterpillar 3516TALE	.160	7684	1		20	500
EQT 0044	48-10-ICE-ES - Compressor #18, Caterpillar 3516TALE	.160	7684	1		20	500
EQT 0045	49-10-ICE-ES - Compressor #19, Caterpillar 3516TALE	.160	7684	1		20	500
EQT 0046	50a-10-WST-CV - Water Storage Tank	.02	.1	.3		35	70
EQT 0047	50b-10-WST-CV - Water Storage Tank	.02	.1	.3		35	70
EQT 0048	50c-10-WST-CV - Water Storage Tank	.02	.1	.3		35	70
EQT 0049	51-10-ST-V - Storage Tank, Field Receiving	.03	.05	.2		17	70

**Relationships:**

ID	Description	Relationship	ID	Description
EQT 0034	3.01 - Glycol Regenerator - Still Column	Controlled by	EQT 0039	36.01R - Thermal Oxidizer
EQT 0035	52-10-AR-SCC - Amine Regenerator - Still Column Condenser	Controlled by	EQT 0039	36.01R - Thermal Oxidizer

**Subject Item Groups:**

ID	Group Type	Group Description
CRG 0001	Common Requirements Group	COMPS - Compressor Engines Common Requirements
CRG 0002	Common Requirements Group	BOILERS - Boilers Common Requirements
CRG 0003	Common Requirements Group	NEWCOMPS - New Compressor Engines Common Requirements
GRP 0002	Equipment Group	GENERATORS - Generators Cap and Common Requirements
UNF 0001	Unit or Facility Wide	A3269 - Cotton Valley Gas Plant

**Group Membership:**

ID	Description	Member of Group
EQT 0008	2.01 - Boiler #1	CRG000000000002
EQT 0009	2.02 - Boiler #2	CRG000000000002
EQT 0010	2.03 - Boiler #3	CRG000000000002
EQT 0015	30.01 - Generator # 1, Caterpillar 3516TALE	GRP000000000002
EQT 0016	30.02 - Generator #2, Caterpillar 3516TALE	GRP000000000002
EQT 0017	30.03 - Generator #3, Caterpillar 3516TALE	GRP000000000002
EQT 0018	30.04 - Generator #3, Caterpillar 3516TALE	GRP000000000002
EQT 0027	40.01 - Compressor #10, Clark RA-6	CRG000000000001
EQT 0028	40.02 - Compressor #23, Caterpillar 3516 TAIE	CRG000000000001
EQT 0031	41.01 - Compressor #2, Caterpillar 3516 TAIE	CRG000000000001

**INVENTORIES**

AI ID: 3269 - Cotton Valley Gas Plant  
 Activity Number: PER20100001  
 Permit Number: 3080-00019-V5  
 Air - Title V Regular Permit Renewal

**Group Membership:**

ID	Description	Member of Groups
EQT 0032	39.02 - Compressor #11. Clark RA-8	CRG00000000001
EQT 0033	39.03 - Compressor #12. Clark RA-8	CRG00000000001
EQT 0041	10.05 - Compressor #5. Clark RA-6	CRG00000000001
EQT 0042	10.08 - Compressor #8. Clark RA-6	CRG00000000001
EQT 0043	47-10-ICE-ES - Compressor #17. Caterpillar 3516TALE	CRG00000000003
EQT 0044	48-10-ICE-ES - Compressor #18. Caterpillar 3516TALE	CRG00000000003
EQT 0045	49-10-ICE-ES - Compressor #19. Caterpillar 3516TALE	CRG00000000003

**NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group**

**Annual Maintenance Fee:**

Fee Number	Air Contaminant Source	Multplier	Units Of Measure
0042	0042 Crude Oil and Natural Gas Production (250 T/Yr to 500 T/Yr Source)	1	Units
0050	0050 Natural Gas Liquids Per Unit		

**SIC Codes:**

1321	Natural gas liquids	AI 3269
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**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 3269 - Cotton Valley Gas Plant  
 Activity Number: PER20100001  
 Permit Number: 3080-00019-V5  
 Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
<b>Cotton Valley Gas Plant</b>															
EQT 0008 2.01	2.98	2.98	13.05	3.55	3.55	15.54	0.27	0.27	1.18	0.02	0.02	0.09	0.20	0.20	0.85
EQT 0009 2.02	2.98	2.98	13.05	3.55	3.55	15.54	0.27	0.27	1.18	0.02	0.02	0.09	0.20	0.20	0.85
EQT 0010 2.03	2.98	2.98	13.05	3.55	3.55	15.54	0.27	0.27	1.18	0.02	0.02	0.09	0.20	0.20	0.85
EQT 0011 2.00	0.51	0.51	2.25	0.61	0.61	2.68	0.05	0.05	0.20	0.01	<0.01	0.02	0.03	0.04	0.15
EQT 0012 2.01													0.01	0.01	0.04
EQT 0013 20.00	1.59	1.59	6.95	0.80	0.80	3.48	0.06	0.06	0.25	0.01	0.01	0.03	0.63	0.63	2.77
EQT 0014 3.00	0.09	0.09	0.40	0.11	0.11	0.48	0.01	0.01	0.04			<0.01	<0.01	0.03	
EQT 0015 30.01		5.13			8.79				0.10			0.01		6.06	
EQT 0016 30.02		5.13			8.79				0.10			0.01		6.06	
EQT 0017 30.03		5.13			8.79				0.10			0.01		6.06	
EQT 0018 30.04		5.13			8.79				0.10			0.01		6.06	
EQT 0019 31.01	0.40	0.40	1.76	0.48	0.48	2.10	0.04	0.04	0.16	<0.01	<0.01	0.01	0.03	0.03	0.12
EQT 0020 32.01	1.92	2.31	0.10	8.93	10.71	0.45	0.63	0.63	0.78	0.03	0.59	0.70	0.03	0.62	0.75
EQT 0021 32.02	1.92	2.31	0.10	8.93	10.71	0.45	0.63	0.63	0.76	0.03	0.59	0.70	0.04	0.62	0.75
EQT 0022 33.01	0.98	1.18	0.10	4.56	5.46	0.46	0.32	0.32	0.39	0.03	0.30	0.36	0.03	0.32	0.39
EQT 0024 35.01													0.04	0.04	0.18
EQT 0027 40.01	4.05	5.06	17.73	11.89	26.46	52.09	0.19	0.19	0.81	<0.01	<0.01	0.01	1.15	1.44	5.05
EQT 0028 40.02	5.30	7.95	23.21	5.58	8.37	24.43	<0.01	<0.01	0.01	0.01	0.01	0.04	0.18	0.22	0.77
EQT 0029 40.03	5.30	7.95	23.21	5.58	8.37	24.43	<0.01	<0.01	0.01	0.01	0.01	0.04	0.18	0.22	0.77
EQT 0030 40.04	5.30	7.95	23.21	5.58	8.37	24.43	<0.01	<0.01	0.01	0.01	0.01	0.04	0.18	0.22	0.77
EQT 0031 41.01	5.30	7.95	23.21	5.58	8.37	24.43	<0.01	<0.01	0.01	0.01	0.01	0.04	0.18	0.22	0.77
EQT 0032 39.02	4.05	5.06	17.73	11.89	26.46	52.09	0.19	0.19	0.81	<0.01	<0.01	0.01	1.15	1.44	5.05
EQT 0033 39.03	4.05	5.06	17.73	11.89	26.46	52.09	0.19	0.19	0.81	<0.01	<0.01	0.01	1.15	1.44	5.05

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 3269 - Cotton Valley Gas Plant  
 Activity Number: PER20100001  
 Permit Number: 3080-00019-V5  
 Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
<b>Cotton Valley Gas Plant</b>															
EQT 0036 53-10-GST-v															
EQT 0039 36-01R	0.27	0.27	1.20	0.30	0.30	1.31	0.55	0.55	2.41	4.43	4.43	19.39	1.13	1.13	7.09
EQT 0040 31-01													0.01	0.01	0.03
EQT 0041 1005	4.05	5.06	17.73	11.89	26.46	52.09	0.19	0.19	0.81	<0.01	<0.01	0.01	1.15	1.44	5.05
EQT 0042 10-08	4.05	5.06	5.06	11.89	14.87	14.87	0.19	0.19	0.23	<0.01	<0.01	<0.01	1.15	1.44	1.44
EQT 0043 47-10-ICE-ES	1.10	1.65	4.81	4.43	6.65	19.41	<0.01	<0.01	0.01	0.01	0.01	0.04	0.19	0.23	0.82
EQT 0044 48-10-ICE-ES	1.10	1.65	4.81	4.43	6.65	19.41	<0.01	<0.01	0.01	0.01	0.01	0.04	0.19	0.23	0.82
EQT 0045 49-10-ICE-ES	1.10	1.65	4.81	4.43	6.65	19.41	<0.01	<0.01	0.01	0.01	0.01	0.04	0.19	0.23	0.82
EQT 0046 50-10-WST-CV													0.34	0.34	1.51
EQT 0047 50b-10-WST-CV													0.34	0.34	1.51
EQT 0048 50c-10-WST-CV													0.34	0.34	1.51
EQT 0049 51-10-ST-v													0.39	0.39	1.74
FUG 0001 400													11.24	11.24	49.27
GRP 0002 GENERATORS	10.94		47.90	18.74		82.06	<0.01		0.01	0.02		0.10	0.48		2.12

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3269 - Cotton Valley Gas Plant

Activity Number: PER20100001

Permit Number: 3080-00019-V5

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0008 2.01	Formaldehyde	<0.01	<0.01	0.01
	n-Hexane	0.06	0.06	0.28
EQT 0009 2.02	Formaldehyde	<0.01	<0.01	0.01
	n-Hexane	0.06	0.06	0.28
EQT 0010 2.03	Formaldehyde	<0.01	<0.01	0.01
	n-Hexane	0.06	0.06	0.28
EQT 0011 26.00	n-Hexane	0.01	0.01	0.05
EQT 0013 29.00	Benzene	<0.01	<0.01	0.01
	Toluene	<0.01	<0.01	0.01
	n-Hexane	0.02	0.02	0.08
EQT 0014 3.00	n-Hexane	<0.01	<0.01	0.01
EQT 0015 30.01	Acetaldehyde		0.01	
	Formaldehyde		0.06	
	Methanol		0.01	
EQT 0016 30.02	Acetaldehyde		0.01	
	Formaldehyde		0.06	
	Methanol		0.01	
EQT 0017 30.03	Acetaldehyde		0.01	
	Formaldehyde		0.06	
	Methanol		0.01	
EQT 0018 30.04	Acetaldehyde		0.01	
	Formaldehyde		0.06	
	Methanol		0.01	
EQT 0019 31.01	n-Hexane	0.01	0.01	0.04
EQT 0024 35.01	Methanol	0.04	0.04	0.18
EQT 0027 40.01	1,3-Butadiene	<0.01	<0.01	0.01
	2,2,4-Trimethylpentane	0.02	0.02	0.07
	Acetaldehyde	0.14	0.14	0.63
	Acrolein	0.04	0.04	0.17
	Benzene	0.01	0.01	0.05
	Ethyl benzene	0.01	0.01	0.05
	Formaldehyde	0.27	0.27	1.17
	Methanol	0.02	0.02	0.07

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3269 - Cotton Valley Gas Plant

Activity Number: PER20100001

Permit Number: 3080-00019-V5

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0027 40.01	Styrene	0.01	0.01	0.05
	Toluene	0.01	0.01	0.05
	Xylene (mixed isomers)	0.01	0.01	0.06
	n-Hexane	0.01	0.01	0.04
EQT 0028 40.02	Acetaldehyde	0.01	0.01	0.06
	Formaldehyde	0.07	0.07	0.32
	Methanol	0.01	0.01	0.05
EQT 0029 40.03	Acetaldehyde	0.01	0.01	0.06
	Formaldehyde	0.07	0.07	0.32
	Methanol	0.01	0.01	0.05
EQT 0030 40.04	Acetaldehyde	0.01	0.01	0.06
	Formaldehyde	0.07	0.07	0.32
	Methanol	0.01	0.01	0.05
EQT 0031 41.01	Acetaldehyde	0.01	0.01	0.06
	Formaldehyde	0.07	0.07	0.32
	Methanol	0.01	0.01	0.05
EQT 0032 39.02	1,3-Butadiene	<0.01	<0.01	0.01
	2,2,4-Trimethylpentane	0.02	0.02	0.07
	Acetaldehyde	0.14	0.14	0.63
	Acrolein	0.04	0.04	0.17
	Benzene	0.01	0.01	0.05
	Ethyl benzene	0.01	0.01	0.05
	Formaldehyde	0.27	0.27	1.17
	Methanol	0.02	0.02	0.07
	Styrene	0.01	0.01	0.05
	Toluene	0.01	0.01	0.05
EQT 0033 39.03	Xylene (mixed isomers)	0.01	0.01	0.06
	n-Hexane	0.01	0.01	0.04
	1,3-Butadiene	<0.01	<0.01	0.01
	2,2,4-Trimethylpentane	0.02	0.02	0.07
	Acetaldehyde	0.14	0.14	0.63
EQT 0034 39.04	Acrolein	0.04	0.04	0.17
	Benzene	0.01	0.01	0.05

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS****AI ID: 3269 - Cotton Valley Gas Plant****Activity Number: PER20100001****Permit Number: 3080-00019-V5****Air - Title V Regular Permit Renewal**

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0033 39.03	Ethyl benzene	0.01	0.01	0.05
	Formaldehyde	0.27	0.27	1.17
	Methanol	0.02	0.02	0.07
	Styrene	0.01	0.01	0.05
	Toluene	0.01	0.01	0.05
	Xylene (mixed isomers)	0.01	0.01	0.06
	n-Hexane	0.01	0.01	0.04
EQT 0036 53-10-GST-V	2,2,4-Trimethylpentane	0.01	0.01	0.03
	Benzene	0.01	0.01	0.05
	Toluene	0.01	0.01	0.05
	Xylene (mixed isomers)	<0.01	<0.01	0.01
	n-Hexane	0.03	0.03	0.13
EQT 0039 36.01R	Benzene	0.61	0.61	2.69
	Ethyl benzene	0.01	0.01	0.04
	Hydrogen sulfide	0.24	0.24	1.03
	Toluene	0.06	0.06	0.27
	Xylene (mixed isomers)	0.01	0.01	0.05
	n-Hexane	0.01	0.01	0.06
EQT 0040 37.01	Methanol	0.01	0.01	0.03
EQT 0041 10.05	1,3-Butadiene	<0.01	<0.01	0.01
	2,2,4-Trimethylpentane	0.02	0.02	0.07
	Acetaldehyde	0.14	0.14	0.63
	Acrolein	0.04	0.04	0.17
	Benzene	0.01	0.01	0.05
	Ethyl benzene	0.01	0.01	0.05
	Formaldehyde	0.27	0.27	1.17
	Methanol	0.02	0.02	0.07
	Styrene	0.01	0.01	0.05
	Toluene	0.01	0.01	0.05
	Xylene (mixed isomers)	0.01	0.01	0.06
EQT 0042 10.08	n-Hexane	0.01	0.01	0.04
	2,2,4-Trimethylpentane	0.02	0.02	0.02
	Acetaldehyde	0.14	0.14	0.18

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3269 - Cotton Valley Gas Plant

Activity Number: PER20100001

Permit Number: 3080-00019-V5

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0042 10-08	Acrolein	0.04	0.04	0.05
	Benzene	0.01	0.01	0.01
	Ethyl benzene	0.01	0.01	0.02
	Formaldehyde	0.27	0.27	0.33
	Methanol	0.02	0.02	0.02
	Styrene	0.01	0.01	0.02
	Toluene	0.01	0.01	0.01
	Xylene (mixed isomers)	0.01	0.01	0.02
EQT 0043 47-10-ICE-ES	n-Hexane	0.01	0.01	0.01
	Acetaldehyde	0.01	0.01	0.06
	Formaldehyde	0.08	0.08	0.34
EQT 0044 48-10-ICE-ES	Methanol	0.01	0.01	0.06
	Acetaldehyde	0.01	0.01	0.06
	Formaldehyde	0.08	0.08	0.34
EQT 0045 49-10-ICE-ES	Methanol	0.01	0.01	0.06
	Acetaldehyde	0.01	0.01	0.06
	Formaldehyde	0.08	0.08	0.34
EQT 0046 50a-10-WST-CV	Methanol	0.01	0.01	0.06
	n-Hexane	0.03	0.03	0.13
	n-Hexane	0.03	0.03	0.13
EQT 0047 50b-10-WST-CV	n-Hexane	0.03	0.03	0.13
EQT 0048 50c-10-WST-CV	n-Hexane	0.03	0.03	0.13
EQT 0049 51-10-ST-V	n-Hexane	0.04	0.04	0.16
FUG 0001 4.00	Benzene	0.05	0.05	0.20
	Ethyl benzene	<0.01	<0.01	0.01
	Toluene	0.02	0.02	0.08
	Xylene (mixed isomers)	<0.01	<0.01	0.02
GRP 0002 GENERATORS	Acetaldehyde	0.01		0.07
	Formaldehyde	0.87		0.87
	Methanol	0.03		0.15
UNF 0001 AI3269	1,3-Butadiene			0.04
	2,2,4-Trimethylpentane			0.33
	Acetaldehyde			3.19
	Acrolein			0.73

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS****AI ID: 3269 - Cotton Valley Gas Plant****Activity Number: PER20100001****Permit Number: 3080-00019-V5****Air - Title V Regular Permit Renewal**

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0001 AI3269	Benzene			3.16
	Ethyl benzene			0.28
	Formaldehyde			8.21
	Hydrogen sulfide			1.03
	Methanol			1.04
	Styrene			0.22
	Toluene			0.62
	Xylene (mixed isomers)			0.34
	n-Hexane			1.93

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

**SPECIFIC REQUIREMENTS**

**AI ID:** 3269 - Cotton Valley Gas Plant  
**Activity Number:** PER20100001  
**Permit Number:** 3080-00019-V5  
**Air - Title V Regular Permit Renewal**

**CRG 0001 COMPS - Compressor Engines Common Requirements**

Group Members: EQT 0027EQT 0028EQT 0031EQT 0041EQT 0042

- 1 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: None specified
- 2 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: Six-minute average
- 3 [LAC 33:III.507.H.1.a] Stack gas concentration: Carbon monoxide monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.  
Which Months: All Year Statistical Basis: None specified
- 4 [LAC 33:III.507.H.1.a] Equipment/operational data recordkeeping by electronic or hard copy annually. Recorded parameters are NOx, CO, O2, SO2 and VOC concentrations in the stack gas obtained during annual testing.
- 5 [LAC 33:III.507.H.1.a] Stack gas concentration: Oxygen monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O2 in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.  
Which Months: All Year Statistical Basis: None specified
- 6 [LAC 33:III.507.H.1.a] Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Compliance. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- 7 [LAC 33:III.507.H.1.a] Stack gas concentration: Nitrogen oxides monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of NOx in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.  
Which Months: All Year Statistical Basis: None specified

**CRG 0002 BOILERS - Boilers Common Requirements**

Group Members: EQT 0008EQT 0009EQT 0010

- 8 [40 CFR 60.48c(b)]

Submit notification: Due as specified in 40 CFR 60.7. Submit the date of construction or reconstruction, anticipated startup, and actual startup. Include the information specified in 40 CFR 60.48c(a)(1) through (a)(4) as applicable. Subpart Dc. [40 CFR 60.48c(a)]

**SPECIFIC REQUIREMENTS**

AI ID: 3269 - Cotton Valley Gas Plant  
**Activity Number:** PER20100001  
**Permit Number:** 3080-00019-V5  
**Air - Title V Regular Permit Renewal**

**CRG 0002 BOILERS - Boilers Common Requirements**

- 9 [40 CFR 60.48c(f)] Include in the fuel supplier certification required in 40 CFR 60.48c(e)(11) the information specified in 40 CFR 60.48c(f)(1) through (f)(3).  
Subpart Dc. [40 CFR 60.48c(f)]
- 10 [40 CFR 60.48c(g)] Fuel rate recordkeeping by electronic or hard copy daily. Keep records of the amount of each fuel combusted during each day. Subpart Dc. [40 CFR 60.48c(g)]
- 11 [40 CFR 60.48c(h)] Calculate the annual capacity factor individually for each fuel combusted based on a 12-month rolling average basis with a new annual capacity factor calculated at the end of the calendar month. Subpart Dc. [40 CFR 60.48c(h)]
- 12 [40 CFR 60.48c(i)] Maintain all records required under 40 CFR 60.48c for a period of 2 years following the date of such record. Subpart Dc. [40 CFR 60.48c(i)]
- 13 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 14 [LAC 33:III.1113.C] Which Months: All Year Statistical Basis: None specified Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: None specified

**CRG 0003 NEWCOMPSS - New Compressor Engines Common Requirements**

Group Members: EQT 0043EQT 0044EQT 0045

- 15 [40 CFR 60.4233(e)] Carbon monoxide <= 4.0 g/BHP-hr (0.0088 lb/HP-hr; 540 ppmvd at 15% O2). Subpart JJJJ. [40 CFR 60.4233(e)]  
Which Months: All Year Statistical Basis: None specified
- 16 [40 CFR 60.4233(e)] Nitrogen oxides <= 2.0 g/BHP-hr (0.0044 lb/HP-hr; 160 ppmvd at 15% O2). Subpart JJJJ. [40 CFR 60.4233(e)]  
Which Months: All Year Statistical Basis: None specified
- 17 [40 CFR 60.4233(e)] (Excluding formaldehyde) VOC, Total <= 1.0 g/BHP-hr (0.0022 lb/HP-hr; 86 ppmvd at 15% O2). Subpart JJJJ. [40 CFR 60.4233(e)]  
Which Months: All Year Statistical Basis: None specified
- 18 [40 CFR 60.4234] Operate and maintain stationary SI ICE to achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine.  
Subpart JJJJ.
- 19 [40 CFR 60.4243(b)(2)] Conduct an initial performance test. Conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance, if the engine is greater than 500 HP. Subpart JJJJ. [40 CFR 60.4243(b)(2)]
- 20 [40 CFR 60.4243(b)(2)] Demonstrate compliance according to the emission standards specified in 40 CFR 60.4233(e), the requirements specified in 40 CFR 60.4244, as applicable, and the requirements specified in 40 CFR 60.4243(b)(2)(i) and (b)(2)(ii), as applicable. Subpart JJJJ. [40 CFR 60.4243(b)(2)]
- 21 [40 CFR 60.4243(b)(2)] Ensure that the engine is maintained and operated to the extent practicable in a manner consistent with good air pollution control practice for minimizing emissions. Subpart JJJJ. [40 CFR 60.4243(b)(2)]
- 22 [40 CFR 60.4243(e)] Operate using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations. Keep records of such use. If propane is used for more than 100 hours per year and the engine is not certified to the emission standards when using propane, conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233. Subpart JJJJ. [40 CFR 60.4243(e)]
- 23 [40 CFR 60.4243(g)] Air-to-fuel ratio controller. Maintain and operate appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. Subpart JJJJ. [40 CFR 60.4243(g)]

**SPECIFIC REQUIREMENTS**

AJ ID: 3269 - Cotton Valley Gas Plant  
 Activity Number: PER20100001  
 Permit Number: 3080-00019-V5  
 Air - Title V Regular Permit Renewal

**CRG 0003 NEWCOMPS - New Compressor Engines Common Requirements**

- Conduct performance tests by following the procedures in 40 CFR 60.4244(a) through (g). Subpart JJJ.
- Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep records of the information in 40 CFR 60.4245(a)(1) through (a)(4). Subpart JJJ. [40 CFR 60.4245(a)]
- Submit an initial notification as required in 40 CFR 60.7(a)(1). Include the information in 40 CFR 60.4245(c)(1) through (c)(5). Subpart JJJ. [40 CFR 60.4245(c)]
- Submit performance test results: Due within 60 days after each test conducted according to 40 CFR 60.4244 has been completed. Subpart JJJ. [40 CFR 60.4245(d)]
- Meet the requirements of 40 CFR 60 Subpart IIII for compression ignition engines or 40 CFR 60 Subpart JJJ for spark ignition engines. Subpart ZZZZ. [40 CFR 63.6590(c)]
- Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- Which Months: All Year Statistical Basis: None specified
- Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- Which Months: All Year Statistical Basis: Six-minute average
- 30 [LAC 33:III.1101.C]

**EQT 0011 26.00 - Regeneration Heater**

- 31 [LAC 33:III.1101.B]
- 32 [LAC 33:III.1313.C]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

**EQT 0013 29.00 - Control Flare**

- 33 [LAC 33:III.507.H.1.a]
- 34 [LAC 33:III.507.H.1.a]
- 35 [LAC 33:III.507.H.1.a]
- 36 [LAC 33:III.507.H.1.a]
- 37 [LAC 33:III.507.H.1.a]

Flare gas: Heat content recordkeeping by electronic or hard copy annually.

Flare gas: Heat content monitored by gas analysis annually, to insure the heat content is above 300 BTU/scf.  
 Which Months: All Year Statistical Basis: None specified

Flare gas: Heat content > 300 BTU/scf, to ensure destruction of emissions to the flare stack.  
 Which Months: All Year Statistical Basis: None specified

Presence of a flame monitored by heat sensing device continuously.  
 Which Months: All Year Statistical Basis: None specified

Presence of a flame recordkeeping by electronic or hard copy continuously.

**SPECIFIC REQUIREMENTS**

AI ID: 3269 - Cotton Valley Gas Plant  
 Activity Number: PER20100001  
 Permit Number: 3080-000019-V5  
 Air - Title V Regular Permit Renewal

**EQT 0014 3.00 - Glycol Regenerator - Burner Stack**

38 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: None Specified

- 39 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: None Specified
- EQT 0019 31.01 - Stabilizer Reboiler - Burner Stack**
- 40 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: None Specified
- 41 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: None Specified

**EQT 0020 32.01 - Fire Water Pump Engine, Caterpillar 3208**

- 42 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: None Specified
- 43 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: Six-minute average

**EQT 0021 32.02 - Fire Water Pump Engine, Caterpillar 3208**

- 44 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: None Specified
- 45 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: Six-minute average

**EQT 0022 33.01 - Backup Air Compressor, John Deere 4045T**

**SPECIFIC REQUIREMENTS**

AI ID: 3269 - Cotton Valley Gas Plant  
 Activity Number: PER20100001  
 Permit Number: 3080-00019-V5  
 Air - Title V Regular Permit Renewal

**EQT 0022 33.01 - Backup Air Compressor, John Deere 4045T**

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

**EQT 0024 35.01 - Methanol Storage Tank**

Equip with a submerged fill pipe.

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-c.

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**EQT 0029 40.03 - Compressor #1, Caterpillar 3516 TALE**

Carbon monoxide >= 93 % reduction. Subpart ZZZZ. [40 CFR 63.6600(b)]

Which Months: All Year Statistical Basis: None specified

Be in compliance with emission limitations in 40 CFR 63 Subpart ZZZZ at all times, except during periods of startup, shutdown and malfunction. Subpart ZZZZ. [40 CFR 63.6605(a)]

Operate and maintain in a manner consistent with good air pollution control practices for minimizing emissions at all times, including during startup, shutdown, and malfunction. Subpart ZZZZ. [40 CFR 63.6605(b)]

Conduct subsequent performance tests semiannually. Subpart ZZZZ.

Conduct each applicable performance test in 40 CFR 63 Subpart ZZZZ Tables 3 and 4. Subpart ZZZZ. [40 CFR 63.6620(a)]

Conduct each performance test according to the requirements in 40 CFR 63.7(c)(1) and under the specific conditions in 40 CFR 63 Subpart ZZZZ Table 4. Subpart ZZZZ. [40 CFR 63.6620(b)]

Determine compliance with the percent reduction requirement, using equation 1 in 40 CFR 63.6620. Subpart ZZZZ. [40 CFR 63.6620(c)]

Include a written report of the average percent load determination in the notification of compliance status. Include the following information: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, provide the model number of the measurement device, and an estimate of its accurate in percentage of true value. Subpart ZZZZ. [40 CFR 63.6620(i)]

Determine the engine percent load during a performance test by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. Subpart ZZZZ. [40 CFR 63.6620(i)]

**SPECIFIC REQUIREMENTS**

AI ID: 3269 - Cotton Valley Gas Plant  
**Activity Number:** PER20100001  
**Permit Number:** 3080-00019-V5  
**Air • Title V Regular Permit Renewal**

**EQT 0029 40.03 - Compressor #1, Caterpillar 3516 TALE**

- 60 [40 CFR 63.6630(a)] Demonstrate initial compliance with each applicable emission and operating limitation according to 40 CFR 63 Subpart ZZZZ Table 5. Subpart ZZZZ. [40 CFR 63.6630(a)]
- 61 [40 CFR 63.6640(a)] Demonstrate continuous compliance with each applicable emission limitation and operating limitation in 40 CFR 63 Subpart ZZZZ Tables 1a and 1b and Tables 2a and 2b according to methods specified in 40 CFR 63 Subpart ZZZZ Table 6. Subpart ZZZZ. [40 CFR 63.6640(a)]
- 62 [40 CFR 63.6640(b)] Conduct a performance test to demonstrate that the required emission limitation applicable are being met, if the values of the operating parameters are reestablished. Subpart ZZZZ. [40 CFR 63.6640(b)]
- 63 [40 CFR 63.6655] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.6655(a) through (d), as applicable. Subpart ZZZZ.
- 64 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 65 [LAC 33:III.1311.C] Which Months: All Year Statistical Basis: None specified  
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: Six-minute average

**EQT 0030 40.04 - Compressor #6, Caterpillar 3516 TALE**

- 66 [40 CFR 63.6600(b)] Carbon monoxide >= 93 % reduction. Subpart ZZZZ. [40 CFR 63.6600(b)]
- 67 [40 CFR 63.6605(a)] Which Months: All Year Statistical Basis: None specified  
 Be in compliance with emission limitations in 40 CFR 63 Subpart ZZZZ at all times, except during periods of startup, shutdown and malfunction. Subpart ZZZZ. [40 CFR 63.6605(a)]
- 68 [40 CFR 63.6605(b)] Operate and maintain in a manner consistent with good air pollution control practices for minimizing emissions at all times, including during startup, shutdown, and malfunction. Subpart ZZZZ. [40 CFR 63.6605(b)]
- 69 [40 CFR 63.6615] Conduct subsequent performance tests semiannually. Subpart ZZZZ.
- 70 [40 CFR 63.6620(a)] Conduct each applicable performance test in 40 CFR 63 Subpart ZZZZ. Tables 3 and 4. Subpart ZZZZ. [40 CFR 63.6620(a)]
- 71 [40 CFR 63.6620(b)] Conduct each performance test according to the requirements in 40 CFR 63.7(e)(1) and under the specific conditions in 40 CFR 63 Subpart ZZZZ Table 4. Subpart ZZZZ. [40 CFR 63.6620(b)]
- 72 [40 CFR 63.6620(e)] Determine compliance with the percent reduction requirement using equation 1 in 40 CFR 63.6620. Subpart ZZZZ. [40 CFR 63.6620(e)]
- 73 [40 CFR 63.6620(i)] Determine the engine percent load during a performance test by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. Subpart ZZZZ. [40 CFR 63.6620(i)]
- 74 [40 CFR 63.6620(i)] Include a written report of the average percent load determination in the notification of compliance status. Include the following information:  
 the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, provide the model number of the measurement device, and an estimate of its accuracy in percentage of true value. Subpart ZZZZ. [40 CFR 63.6620(i)]

**SPECIFIC REQUIREMENTS**

AI ID: 3269 - Cotton Valley Gas Plant  
 Activity Number: PER20100001  
 Permit Number: 3080-00019-Y5  
 Air - Title V Regular Permit Renewal

**EQT 0030 40.04 - Compressor #6, Caterpillar 3516 TALE**

- 75 [40 CFR 63.6630(a)] Demonstrate initial compliance with each applicable emission and operating limitation according to 40 CFR 63 Subpart ZZZZ Table 5. Subpart ZZZZ. [40 CFR 63.6630(a)]
- 76 [40 CFR 63.6640(a)] Demonstrate continuous compliance with each applicable emission limitation and operating limitation in 40 CFR 63 Subpart ZZZZ Tables 1a and 1b and Tables 2a and 2b according to methods specified in 40 CFR 63 Subpart ZZZZ Table 6. Subpart ZZZZ. [40 CFR 63.6640(a)]
- 77 [40 CFR 63.6640(b)] Conduct a performance test to demonstrate that the required emission limitation applicable are being met, if the values of the operating parameters are reestablished. Subpart ZZZZ. [40 CFR 63.6640(b)]
- 78 [40 CFR 63.6655] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.6655(a) through (d), as applicable. Subpart ZZZZ.
- 79 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 80 [LAC 33:III.1311.C] Which Months: All Year Statistical Basis: None specified Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: Six-minute average

**EQT 0034 3.01 - Glycol Regenerator - Still Column**

- 81 [40 CFR 63.760(e)] Maintain records as specified in 40 CFR 63.10(b)(3). Subpart HH. [40 CFR 63.760(e)]
- 82 [40 CFR 63.774(d)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep records of the information specified in 40 CFR 63.774(d)(1)(i) or (d)(1)(ii), as applicable. Subpart HH. [40 CFR 63.774(d)]
- 83 [LAC 33:III.2116.B.1.a] VOC, Total >= 70% reduction using a control device. Demonstrate percent reduction using the methods found in LAC 33:III.2116.D.  
 Which Months: All Year Statistical Basis: None specified
- 84 [LAC 33:III.2116.D] Determine compliance with LAC 33:III.2116.B using the methods in LAC 33:III.2116.D.1-5, as appropriate.
- 85 [LAC 33:III.2116.F.1] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the information specified in LAC 33:III.2116.F.1.

**EQT 0035 52-10-AR-SCC - Amine Regenerator - Still Column Condenser**

- 86 [40 CFR 60.647(c)] Permittee shall keep, for the life of the facility, an analysis demonstrating that the facility's design capacity is less than 2 long tons per day of hydrogen sulfide expressed as sulfur. [40 CFR 60.647(c)]
- 87 [LAC 33:III.905] Vents shall be routed to the Thermal Oxidizer with destruction efficiency => 90%.

**EQT 0036 53-10-GST.V - Gasoline Storage Tank**

- 88 [LAC 33:III.2103.A] Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.
- 89 [LAC 33:III.2103.H.J] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.

**SPECIFIC REQUIREMENTS**

AI ID: 3269 - Cotton Valley Gas Plant  
**Activity Number:** PER20100001  
**Permit Number:** 3080-00019-V5  
**Air - Title V Regular Permit Renewal**

**EQT 0036 53-10-GST-V - Gasoline Storage Tank**

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.1.1 - 7, as applicable.

**EQT 0039 36.01R - Thermal Oxidizer**

Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]

Inlet/Outlet Difference - Temperature monitored by temperature monitoring device daily. [40 CFR 64.6(c)(1)]  
 Which Months: All Year Statistical Basis: Instantaneous determination

An excursion or exceedance is defined as 10F > Inlet/Outlet Temperature Differences > 400F. [40 CFR 64.6(c)(2)]

Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]  
 Inlet/Outlet Difference - Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 64.6(c)(4)]  
 Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]  
 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]

Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]

Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]

Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the permit limits for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]  
 Make reasonable changes to the Quality Improvement Plan (QIP) as the DEQ requires, upon any determination pursuant to 40 CFR 64.7(d)(2) subsequent to implementation. [40 CFR 64.8(d)]

**SPECIFIC REQUIREMENTS**

AI ID: 3269 - Cotton Valley Gas Plant  
**Activity Number:** PER20100001  
**Permit Number:** 3080-00019-V5  
**Air - Title V Regular Permit Renewal**

**EQT 0039 36.01R - Thermal Oxidizer**

- 102 [40 CFR 64.9(a)]  
 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 103 [40 CFR 64.9(b)(1)]  
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]

- Monitoring data recordkeeping by electronic or hard copy continuously. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 104 [40 CFR 64.9(b)(1)]  
 Monitoring data recordkeeping by electronic or hard copy continuously. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

- 105 [40 CFR 64.9(b)(1)]  
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: None specified  
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: Six-minute average
- 106 [LAC 33:III.1101.B]  
 107 [LAC 33:III.1311.C]

**EQT 0040 37.01 - Methanol Storage Tank**

- 108 [LAC 33:III.2103.A]  
 Equip with a submerged fill pipe.  
 109 [LAC 33:III.2103.H.3]  
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.  
 110 [LAC 33:III.2103.I]  
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**FUG 0002 4.00a - Fugitives - New Fractionation Plant**

- 111 [40 CFR 60.632(a)]  
 Comply with the requirements specified in 40 CFR 60.482-1(a), (b), and (d) and 40 CFR 60.482-2 through 60.482-10, except as provided in 40 CFR 60.633, as soon as practicable, but no later than 180 days after initial startup. Subpart KKK. [40 CFR 60.632(a)]  
 112 [40 CFR 60.632(d)]  
 Comply with the provisions of 40 CFR 60.485 except as provided in 40 CFR 60.632(f) and 60.633(h). Subpart KKK. [40 CFR 60.632(d)]  
 113 [40 CFR 60.632(e)]  
 Comply with the provisions of 40 CFR 60.486 and 60.487 except as provided in 40 CFR 60.633, 60.635, and 60.636. Subpart KKK. [40 CFR 60.632(e)]  
 114 [40 CFR 60.632(f)]  
 Demonstrate that a piece of equipment is not in VOC service or in wet gas service by using the specified methods. Subpart KKK. [40 CFR 60.632(f)]

**SPECIFIC REQUIREMENTS**

AI ID: 3269 - Cotton Valley Gas Plant  
**Activity Number:** PER20100001  
**Permit Number:** 3080-00019-V5  
**Air - Title V Regular Permit Renewal**

**FUG 0002 4.00a - Fugitives - New Fractionation Plant**

Pressure relief devices in gas/vapor service: When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart KKK. [40 CFR 60.633(b)(3)]

Pressure relief devices in gas/vapor service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly and within 5 days after each pressure release to detect leaks by the methods specified in 40 CFR 60.485(b) except as provided in 40 CFR 60.632(c), 60.633(b)(4), and 60.482-4(a) through (c) of Subpart VV. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.633(b)(3). Subpart KKK. [40 CFR 60.633(b)]

Which Months: All Year Statistical Basis: None specified

Pressure relief devices in gas/vapor service: When each leak is detected as specified in 40 CFR 60.633(b)(2), attach a weatherproof and readily visible identification, marked with the equipment identification number, to the leaking equipment. Subpart KKK. [40 CFR 60.635(b)(1)]

Pressure relief devices in gas/vapor service: Equipment/operational data recordkeeping by logbook continuously. When each leak is detected as specified in 40 CFR 60.633(b)(2), record and keep the specified information for 2 years in a readily accessible location. Subpart KKK. [40 CFR 60.635(b)(2)]

Pressure relief devices in gas/vapor service: Include the following information in the initial semiannual report in addition to the information required in 40 CFR 60.487(b)(1) through (4): Number of pressure relief devices subject to the requirements of 40 CFR 60.633(b) except for those pressure relief devices designated for no detectable emissions under the provisions of 40 CFR 60.482-4(a) and those pressure relief devices complying with 40 CFR 60.482-4(c). Subpart KKK. [40 CFR 60.636(b)]

Pressure relief devices in gas/vapor service: Include the following information in all semiannual reports in addition to the information required in 40 CFR 60.487(c)(2)(i) through (vi): Number of pressure relief devices for which leaks were detected as required in 40 CFR 60.633(b)(2) and number of pressure relief devices for which leaks were not repaired as required in 40 CFR 60.633(b)(3). Subpart KKK. [40 CFR 60.636(c)]

Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.

Repair according to LAC 33:III.2121.B.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration.

Do not locate any valve, except safety pressure relief valves, valves on sample lines, valves on drain lines and valves that can be removed and replaced without a shutdown, at the end of a pipe or line containing VOC unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device.

Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2121.B, within 15 days, except as provided.

Pumps and compressors: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times per year).

Which Months: All Year Statistical Basis: None specified

Pumps, pump and compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.

Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions).

Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 3269 - Cotton Valley Gas Plant  
 Activity Number: PER20100001  
 Permit Number: 3080-00019-V5  
 Air - Title V Regular Permit Renewal

**FUG 0002 4.00a - Fugitives - New Fractionation Plant**

- Valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions).
- Which Months: All Year Statistical Basis: None specified
- Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- Which Months: All Year Statistical Basis: None specified
- Pressure relief valves: Presence of a leak monitored by visual inspection/determination immediately after venting to the atmosphere.
- Which Months: All Year Statistical Basis: None specified
- Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- Which Months: All Year Statistical Basis: None specified
- All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2121.B.3.
- Which Months: All Year Statistical Basis: None specified
- Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).
- Which Months: All Year Statistical Basis: None specified
- Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.
- Which Months: All Year Statistical Basis: None specified
- When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired.
- Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2121.E.2 and make said log available to DEQ upon request.
- Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Environmental Technology Division. Include the information specified in LAC 33:III.2121.F.1 through 4 for each calendar quarter during the reporting period.
- FUG 0003 4.00b - Fugitives - Excluding the New Fractionation Plant**
- Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- Repair according to LAC 33:III.2121.B.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration.

**SPECIFIC REQUIREMENTS**

AI ID: 3269 - Cotton Valley Gas Plant  
 Activity Number: PER20100001  
 Permit Number: 3080-00019-V5  
 Air - Title V Regular Permit Renewal

**FUG 0003 4.00b - Fugitives - Excluding the New Fractionation Plant**

- 139 [LAC 33:III.2121.B.2] Do not locate any valve, except safety pressure relief valves, valves on sample lines, valves on drain lines and valves that can be removed and replaced without a shutdown, at the end of a pipe or line containing VOC unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device.  
**Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2121.B, within 15 days, except as provided.**
- 140 [LAC 33:III.2121.B.3] Pumps and compressors: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times per year).  
 Which Months: All Year Statistical Basis: None specified
- 141 [LAC 33:III.2121.C.2.a] Pumps, pump and compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.  
 Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions).
- 142 [LAC 33:III.2121.C.2.b.i] Which Months: All Year Statistical Basis: None specified  
 Valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions).
- 143 [LAC 33:III.2121.C.2.b.ii] Which Months: All Year Statistical Basis: None specified  
 Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 144 [LAC 33:III.2121.C.2.b.iii] Which Months: All Year Statistical Basis: None specified  
 Pressure relief valves: Presence of a leak monitored by visual inspection/determination immediately after venting to the atmosphere.
- 145 [LAC 33:III.2121.C.3.a] Which Months: All Year Statistical Basis: None specified  
 Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
- 146 [LAC 33:III.2121.C.3.a] Which Months: All Year Statistical Basis: None specified  
 Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.
- 147 [LAC 33:III.2121.C.3.b] Which Months: All Year Statistical Basis: None specified  
 Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).
- 148 [LAC 33:III.2121.C.4.c] Which Months: All Year Statistical Basis: None specified  
 When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired.
- 149 [LAC 33:III.2121.C.4.c] Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2121.E.2 and make said log available to DEQ upon request.
- 150 [LAC 33:III.2121.E.1]
- 151 [LAC 33:III.2121.E]

**SPECIFIC REQUIREMENTS**

**AI ID: 3269 - Cotton Valley Gas Plant**  
**Activity Number: PER20100001**  
**Permit Number: 3080-00019-V5**  
**Air - Title V Regular Permit Renewal**

**FUG 0003 4.00b - Fugitives - Excluding the New Fractionation Plant**

152 [LAC 33:III.2121.F]

Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Air Quality Assessment Division.  
 Include the information specified in LAC 33:III.2121.F. 1 through 4 for each calendar quarter during the reporting period.

**GRP 0002 GENERATORS - Generators Cap and Common Requirements**

Group Members: EQT 0016EQT 0017EQT 0018

- 153 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: None specified  
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

- 154 [LAC 33:III.1311.C] Which Months: All Year Statistical Basis: Six-minute average  
 To maintain NOX emissions increase from the 1998 project below the PSD significance level of 40 tons/year, permittee shall maintain generator engines Operating time <= 28000 hr/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if generator engines operating time exceeds the maximum listed in this specific condition for any twelve consecutive month period.  
 Which Months: All Year Statistical Basis: None specified  
 Equipment/operational data recordkeeping by electronic or hard copy annually. Recorded parameters are NOx, CO, and O2 concentrations in the stack gas obtained during annual testing.

- 155 [LAC 33:III.501.C.6] Stack gas concentration: Oxygen monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O2 in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.  
 Which Months: All Year Statistical Basis: None specified  
 Stack gas concentration: Carbon monoxide monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

- 156 [LAC 33:III.507.H.1.a] Which Months: All Year Statistical Basis: None specified  
 Operating time of generator engines Submit report: Due annually, by the 31st of March. Report the generator engines operating time for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.  
 Generator Engines Operating time recordkeeping by electronic or hard copy monthly. Keep records of the total generator engines operating time each month, as well as the total generator engines operating time for the last twelve months. Make records available for inspection by DEQ personnel.
- 157 [LAC 33:III.507.H.1.a]
- 158 [LAC 33:III.507.H.1.a]
- 159 [LAC 33:III.507.H.1.a]
- 160 [LAC 33:III.507.H.1.a]

**SPECIFIC REQUIREMENTS**

AI ID: 3269 - Cotton Valley Gas Plant  
 Activity Number: PER20100001  
 Permit Number: 3080-00019-V5  
 Air - Title V Regular Permit Renewal

**GRP 0002 GENERATORS - Generators Cap and Common Requirements**

- 161 [LAC 33:III.507.H.1.a] Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Compliance.
- 162 [LAC 33:III.507.H.1.a] Generator Engines Operating time monitored by hour/time monitor continuously.  
 Which Months: All Year Statistical Basis: Monthly total
- 163 [LAC 33:III.507.H.1.a] Stack gas concentration: Nitrogen oxides monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of NOx in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.  
 Which Months: All Year Statistical Basis: None specified

**UNF 0001 AI3269 - Cotton Valley Gas Plant**

- 164 [40 CFR 60] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.  
 165 [40 CFR 63] All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in 40 CFR 63 Subparts HH and ZZZZ.  
 166 [40 CFR 82.Subpart F] Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.  
 167 [LAC 33:III.1103] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.  
 168 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.  
 169 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.  
 170 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.  
 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.  
 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.  
 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.

**SPECIFIC REQUIREMENTS**

**AI ID:** 3269 - Cotton Valley Gas Plant  
**Activity Number:** PER20100001  
**Permit Number:** 3080-00019-V5  
**Air - Title V Regular Permit Renewal**

**UNF 0001 AI3269 - Cotton Valley Gas Plant**

- 174 [LAC 33:III.5105.A.3] Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 175 [LAC 33:III.5105.A.4] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- 176 [LAC 33:III.5113.A.1] Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.
- 177 [LAC 33:III.5113.A.2] Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
- 178 [LAC 33:III.535] Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537.
- [LAC 33:III.535, LAC 33:III.537]
- 179 [LAC 33:III.5611.A] Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority.
- 180 [LAC 33:III.5611.B] During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.
- 181 [LAC 33:III.5901.A] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- 182 [LAC 33:III.5907] Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- 183 [LAC 33:III.5911.A] Submit registration: Due within 60 days after the source becomes subject to LAC 33:III Chapter 59. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division.
- 184 [LAC 33:III.5911.C] Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.
- 185 [LAC 33:III.919.D] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.

**General Information**

AI ID: 3269 Cotton Valley Gas Plant  
 Activity Number: PER20100001  
 Permit Number: 3080-00019-V5  
 Air - Title V Regular Permit Renewal

Also Known As:	ID	Name	User Group	Start Date
	3080-00019	CDS Number	CDS Number	08-05-2002
8019911		EPA EIS Facility Site ID	EPA EIS Facility Site ID	01-01-2008
25-1410539		Federal Tax ID	Federal Tax ID	11-21-1999
LAD086262425	XTO Energy Inc	Hazardous Waste Notification	Inactive & Abandoned Sites	11-19-2002
LAD086262425	Marathon Oil Co			06-12-1981
LA0105759	LPDES #	LPDES Permit #	LPDES Permit #	10-10-2003
LAG-80471	LPDES #	LWDPS Permit #	LWDPS Permit #	11-30-2004
WP4837	LWDPS #	Multimedia	Multimedia	06-25-2003
	XTO Energy Inc	Priority 2 Emergency Site	Priority 2 Emergency Site	11-19-2002
G-119-1766	Cotton Valley Gas Plant	Solid Waste Facility No.	Solid Waste Facility No.	07-20-2006
17476	Marathon Oil Co - Cotton Valley Facility	TEMPO Merge	TEMPO Merge	05-27-1993
26789	Marathon Oil Co	TEMPO Merge	TEMPO Merge	10-02-2001
35444	Marathon Gas Plant	TEMPO Merge	TEMPO Merge	08-20-2001
42391	Marathon Oil Co - Cotton Valley Gas Plant	TEMPO Merge	TEMPO Merge	09-18-2001
				08-20-2001
			<b>Main FAX:</b> 8178701671	
			<b>Main Phone:</b> 8178702800	
<b>Physical Location:</b>		1256 Marathon Rd		
		Cotton Valley, LA 71018		
<b>Mailing Address:</b>		810 Houston St Site 2000		
		Fort Worth, TX 76102		
<b>Location of Front Gate:</b>		32.783889 latitude, -93.372778 longitude, Coordinate Method: Lat.Long. - DMS, Coordinate Datum: NAD83		
<b>Related People:</b>	<b>Name</b>	<b>Mailing Address</b>	<b>Phone (Type)</b>	<b>Relationship</b>
Doug Agree		810 Houston St Site 2000 Fort Worth, TX 76102	8178852285 (WP)	Emission Inventory Contact for
Doug Agree		810 Houston St Site 2000 Fort Worth, TX 76102	DOUG_AGREE@XTC	Emission Inventory Contact for
Doug Agree		810 Houston St Site 2000 Fort Worth, TX 76102	8178852285 (WP)	Emission Inventory Contact for
Doug Agree		810 Houston St Site 2000 Fort Worth, TX 76102	DOUG_AGREE@XTC	Emission Inventory Contact for
Doug Agree		810 Houston St Site 2000 Fort Worth, TX 76102	DOUG_AGREE@XTC	Emission Inventory Contact for
Doug Agree		810 Houston St Site 2000 Fort Worth, TX 76102	8178852285 (WP)	Responsible Official for
Doug Agree		810 Houston St Site 2000 Fort Worth, TX 76102	8178852285 (WP)	Responsible Official for
Nick Dungey		810 Houston St Site 2000 Fort Worth, TX 76102	8178852440 (WP)	Responsible Official for
Nina Hutton		810 Houston St Site 2000 Fort Worth, TX 76102	8178852274 (WP)	Water Billing Party for
Nina Hutton		810 Houston St Site 2000 Fort Worth, TX 76102	8178852274 (WP)	Water Permit Contact For
Don Kendrick		2318832421 (ext 23-	2318832421 (ext 23-	Haz. Waste Billing Party for
Barry Warner		1256 Marathon Rd Cotton Valley, LA 71018	3188324215 (WP)	Hazardous Waste Permit Contact For

General Information

**AI ID:** 3269 Cotton Valley Gas Plant  
**Activity Number:** PER20100001  
**Permit Number:** 3080-00019-V5  
**Air - Title V Regular Permit Renewal**

Related Organizations:	Name	Address	Phone (Type)	Relationship
XTO Energy Inc		810 Houston St Ste 2000 Fort Worth, TX 76102	8178701671 (WF)	Emission Inventory Billing Party
XTO Energy Inc		810 Houston St Ste 2000 Fort Worth, TX 76102	DOUG_AGEET@XTC	Emission Inventory Billing Party
XTO Energy Inc		810 Houston St Ste 2000 Fort Worth, TX 76102	DOUG_AGEET@XTC	Emission Inventory Billing Party
XTO Energy Inc		810 Houston St Ste 2000 Fort Worth, TX 76102	8178701671 (WF)	Owns
XTO Energy Inc		810 Houston St Ste 2000 Fort Worth, TX 76102	8178702800 (WP)	Owns
XTO Energy Inc		810 Houston St Ste 2000 Fort Worth, TX 76102	DOUG_AGEET@XTC	Owns
XTO Energy Inc		810 Houston St Ste 2000 Fort Worth, TX 76102	8178701671 (WF)	Operates
XTO Energy Inc		810 Houston St Ste 2000 Fort Worth, TX 76102	8178702800 (WP)	Operates
XTO Energy Inc		810 Houston St Ste 2000 Fort Worth, TX 76102	DOUG_AGEET@XTC	Operates
XTO Energy Inc		810 Houston St Ste 2000 Fort Worth, TX 76102	8178701671 (WF)	Air Billing Party for
XTO Energy Inc		810 Houston St Ste 2000 Fort Worth, TX 76102	8178702800 (WP)	Air Billing Party for
XTO Energy Inc		810 Houston St Ste 2000 Fort Worth, TX 76102	DOUG_AGEET@XTC	Air Billing Party for
XTO Energy Inc		810 Houston St Ste 2000 Fort Worth, TX 76102	8178701671 (WF)	Emission Inventory Billing Party
XTO Energy Inc		810 Houston St Ste 2000 Fort Worth, TX 76102	8178702800 (WP)	Emission Inventory Billing Party
XTO Energy Inc		810 Houston St Ste 2000 Fort Worth, TX 76102	8178702800 (WP)	Emission Inventory Billing Party

**NAIC Codes:**  
211112, Natural Gas Liquid Extraction

**Note:** This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@ls.gov.